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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,548	06/03/2005	Mieko Sakai	2005-0903A	4771
513 7590 04/15/2008 WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.			EXAMINER	
			NGUYEN, DINH Q	
SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Cumment	10/537,548	SAKAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dinh Q. Nguyen	3752				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	— iis action is non-final.					
<i>;</i> —	<i>,</i> —					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	zxammon rvete ine attached emee	7.64.611.611117.7.6.7.62.				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
des the attached actained chief action for a net of the continue copies het received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:						
	·/					

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21-40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 23 recites "said plurality of high pressure water jet nozzles arranged on said nozzle head include high pressure water jet centers being inclined in a direction <u>away</u> from the axis of rotation" and at the same time "being inclined <u>toward</u> the axis of rotation". Similarly claims 24 and 25 recites the features of the nozzles that are in contradict among themselves.

2. For the purpose of this Office action, the claims will be examined as best understood by the examiner.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 21-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rogers et al. in view of Pekarek as best understood by the examiner.

Roger et al. teaches a high pressure water jet cutting device with a rotational nozzle 80 that is movable in X and Y direction (see column 5, lines 23+ and figure 4).

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Rogers et al. does not disclose a plurality of nozzles. However, Pekarek discloses a high pressure water jet cutting device comprising: a high pressure water jet nozzle 10 with a plurality of nozzles 48, wherein the nozzles water jet centers are directed an inclined angles with respect to the axis of rotation, the inclined angles of nozzles 48e being inclined in a direction away from the axis of rotation and nozzles 48a being inclined toward the axis of rotation; the nozzles 48a, 48b and 48e are locating at the different distances from the rotational center and different inclined angles (see figures 3-6). Pekarek does not disclose the nozzle head movable in X and Y direction. Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Rogers et al. with a plurality of nozzles as suggested by Pekarek. Doing so would provide an effective high pressure jet nozzle (see Pekarek column 1, line 50+). Furthermore, the Rogers et al. high pressure water jet cutting devices being used for cutting a surface portion of coating, oxides or hard surfacing, thus it is obvious to one skilled in the art to utilize the Rogers et al. high pressure water jet cutting devices for cutting a resin matrix with an irregular surface having a height form a foundation layer surface within a range of 1 to 100mm, because (a) the Rogers et al. reference and the Pekarek reference are known work in one of field of endeavor, (b) such modification is merely the use of known technique to improve a similar device by Pekarek and (c) such modification, i.e. choosing from a finite number of predictable solutions, is not of innovation but of ordinary skill and common sense. KSR, International Co. v. Teleflex Inc., 550 U.S. (2007).

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With respect to claims 30-40, the apparatus shown by Rogers et al. in view of Pekarek is capable of performing the method or steps recited in the claims

Response to Arguments

- 5. Applicant's arguments filed December 21, 2007 have been fully considered but they are not persuasive in view of Rogers et al. and Pekarek.
- 6. Applicant's arguments with respect to claims 21-40 have been considered but are moot in view of the new ground(s) of rejection.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on 571-272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dinh Q Nguyen/ Primary Examiner, Art Unit 3752

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